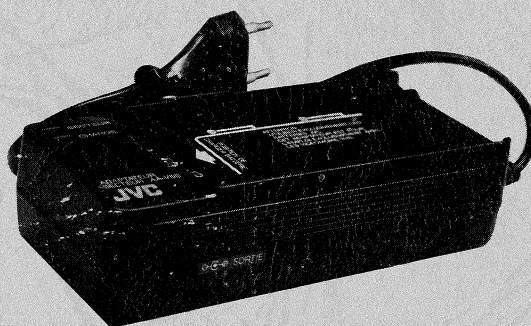


JVC

SERVICE MANUAL

AC POWER ADAPTER

AA-V6EG



AA-V6EG SPECIFICATIONS

Power requirement : AC 110—240 V~, 50/60 Hz
Power consumption : 23 watts
Output : DC 14 V 1.1 A (Charge)
 DC 9.6 V 1.2 A (VTR)
Charging system : Constant current, peak detection,
 timer controlled.
Dimensions : 150(W)x42(H)x69(D) mm
Weight : Approx. 380 g

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Important Safety Precautions

Prior to shipment from the factory, JVC products are strictly inspected to conform with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

● Precautions during Servicing

1. Locations requiring special caution are denoted by labels and inscriptions on the cabinet, chassis and certain parts of the product. When performing service, be sure to read and comply with these and other cautionary notices appearing in the operation and service manuals.

2. Parts identified by the  symbol and shaded (▨) parts are critical for safety.

Replace only with specified part numbers.

Note: Parts in this category also include those specified to comply with X-ray emission standards for products using cathode ray tubes and those specified for compliance with various regulations regarding spurious radiation emission.

3. Fuse replacement caution notice.

Caution for continued protection against fire hazard.

Replace only with same type and rated fuse(s) as specified.

4. Use specified internal wiring. Note especially:

- 1) Wires covered with PVC tubing
- 2) Double insulated wires
- 3) High voltage leads

5. Use specified insulating materials for hazardous live parts. Note especially:

- | | | |
|--------------------|--------------------------------------|------------|
| 1) Insulation Tape | 3) Spacers | 5) Barrier |
| 2) PVC tubing | 4) Insulation sheets for transistors | |

6. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.) wrap ends of wires securely about the terminals before soldering.

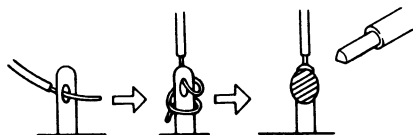


Fig. 1

7. Observe that wires do not contact heat producing parts (heat-sinks, oxide metal film resistors, fusible resistors, etc.)

8. Check that replaced wires do not contact sharp edged or pointed parts.

9. When a power cord has been replaced, check that 10–15 kg of force in any direction will not loosen it.

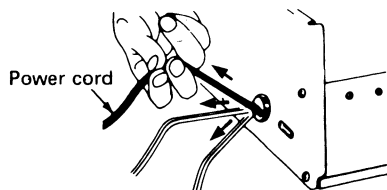


Fig. 2

10. Also check areas surrounding repaired locations.

11. Products using cathode ray tubes (CRTs)

In regard to such products, the cathode ray tubes themselves, the high voltage circuits, and related circuits are specified for compliance with recognized codes pertaining to X-ray emission. Consequently, when servicing these products, replace the cathode ray tubes and other parts with only the specified parts. Under no circumstances attempt to modify these circuits. Unauthorized modification can increase the high voltage value and cause X-ray emission from the cathode ray tube.

12. Crimp type wire connector

In such cases as when replacing the power transformer in sets where the connections between the power cord and power transformer primary lead wires are performed using crimp type connectors, if replacing the connectors is unavoidable, in order to prevent safety hazards, perform carefully and precisely according to the following steps.

1) **Connector part number** : E03830-001

2) **Required tool** : Connector crimping tool of the proper type which will not damage insulated parts.

3) **Replacement procedure**

(1) Remove the old connector by cutting the wires at a point close to the connector.

Important : Do not reuse a connector (discard it).

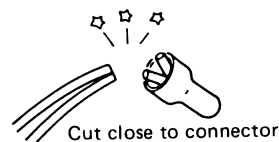


Fig. 3

(2) Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.

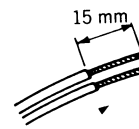


Fig. 4

(3) Align the lengths of the wires to be connected. Insert the wires fully into the connector.

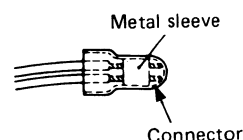


Fig. 5

(4) As shown in Fig. 6, use the crimping tool to crimp the metal sleeve at the center position. Be sure to crimp fully to the complete closure of the tool.

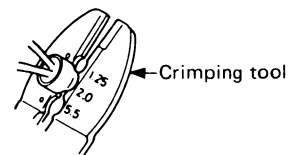


Fig. 6

(5) Check the four points noted in Fig. 7.

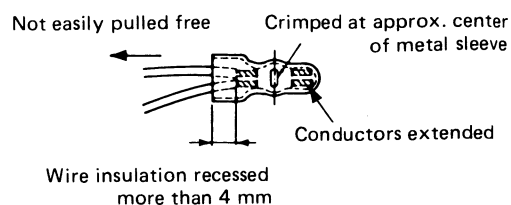


Fig. 7

● Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions. Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

1. Insulation resistance test

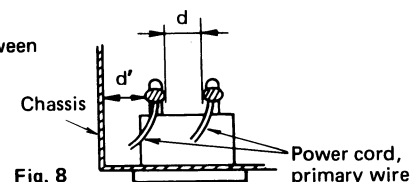
Confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

2. Dielectric strength test

Confirm specified dielectric strength or greater between power cord plug prongs and exposed accessible parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

3. Clearance distance

When replacing primary circuit components, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See table 1 below.



4. Leakage current test

Confirm specified or lower leakage current between earth ground/power cord plug prongs and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).

Measuring Method: (Power ON)

Insert load Z between earth ground/power cord plug prongs and externally exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See figure 9 and following table 2.

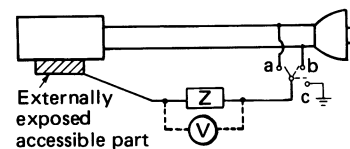


Fig. 9

5. Grounding (Class I model only)

Confirm specified or lower grounding impedance between earth pin in AC inlet and externally exposed accessible parts (Video in, Video out, Audio in, Audio out or Fixing screw etc.).

Measuring Method:

Connect milli ohm meter between earth pin in AC inlet and exposed accessible parts. See figure 10 and grounding specifications.

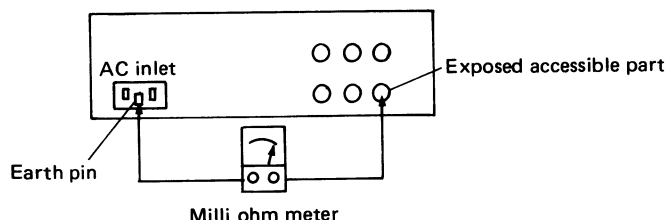


Fig. 10

Grounding Specifications

Region	Grounding Impedance (Z)
USA & Canada	$Z \leq 0.1 \text{ ohm}$
Europe & Australia	$Z \leq 0.5 \text{ ohm}$

AC Line Voltage	Region	Insulation Resistance (R)	Dielectric Strength	Clearance Distance (d), (d')
100 V	Japan	$R \geq 1 \text{ M}\Omega / 500 \text{ V DC}$	AC 1 kV 1 minute	$d, d' \geq 3 \text{ mm}$
100 to 240 V			AC 1.5 kV 1 minute	$d, d' \geq 4 \text{ mm}$
110 to 130 V	USA & Canada	—	AC 900 V 1 minute	$d, d' \geq 3.2 \text{ mm}$
110 to 130 V 200 to 240 V	Europe & Australia	$R \geq 10 \text{ M}\Omega / 500 \text{ V DC}$	AC 3 kV 1 minute (Class II) AC 1.5 kV 1 minute (Class I)	$d \geq 4 \text{ mm}$ $d' \geq 8 \text{ mm}$ (Power cord) $d' \geq 6 \text{ mm}$ (Primary wire)

Table 1 Specifications for each region

AC Line Voltage	Region	Load Z	Leakage Current (i)	a, b, c
100 V	Japan	$1 \text{ k}\Omega$	$i \leq 1 \text{ mA rms}$	Exposed accessible parts
110 to 130 V	USA & Canada	$0.15 \mu\text{F}$ and $1.5 \text{ k}\Omega$	$i \leq 0.5 \text{ mA rms}$	Exposed accessible parts
110 to 130 V 220 to 240 V	Europe & Australia	$2 \text{ k}\Omega$	$i \leq 0.7 \text{ mA peak}$ $i \leq 2 \text{ mA dc}$	Antenna earth terminals
		$50 \text{ k}\Omega$	$i \leq 0.7 \text{ mA peak}$ $i \leq 2 \text{ mA dc}$	Other terminals

Table 2 Leakage current specifications for each region

Note: These tables are unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

Thank you for purchasing the JVC AA-V6EG AC Power Adapter. This unit provides DC power for the JVC VideoMovie from a household AC outlet. It can also be used to recharge the JVC Battery Pack for exclusive use with the JVC VideoMovie. To avoid problems and obtain the best results, please read this instruction booklet carefully before use.

CAUTION

To prevent electric shock, do not open the cabinet. No user serviceable parts inside. Refer servicing to qualified service personnel.

CAUTION: When you are not using this unit for a long period of time, it is recommended that you disconnect the power cord from AC outlet.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

This unit should be used with AC 110 – 240 V~, 50/60 Hz only.

CAUTION:

To prevent electric shocks and fire hazards, do NOT use any other power source.

NOTE:

The rating plate (serial number plate) is on the bottom of the unit.

This equipment has been produced to comply with Directive number 82/499/EEC.

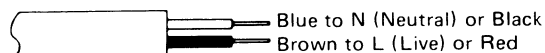
1

**WARNING—DANGEROUS
VOLTAGE INSIDE**

IMPORTANT (in the United Kingdom)

IMPORTANT

Do not make any connection to the Larger Terminal coded E or Green. The wires in the mains lead are coloured in accordance with the following code;



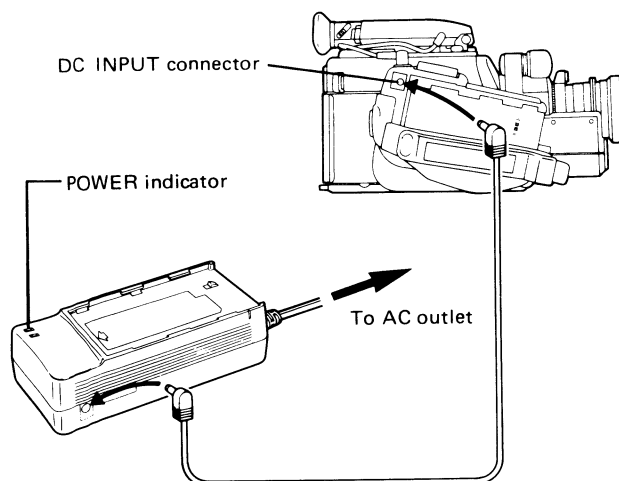
If these colours do not correspond with the terminal identifications of your plug, connect as follows:

Blue wire to terminal coded N (Neutral) or coloured Black.
Brown wire to terminal coded L (Live) or coloured Red.

If in doubt — consult a competent electrician.

2

PROVIDING POWER FOR THE VIDEOMOVIE



1 Connect the AC power cord to a wall outlet.
(The POWER indicator will light.)

2 Connect the VideoMovie to the AC POWER ADAPTER using the provided DC cord.

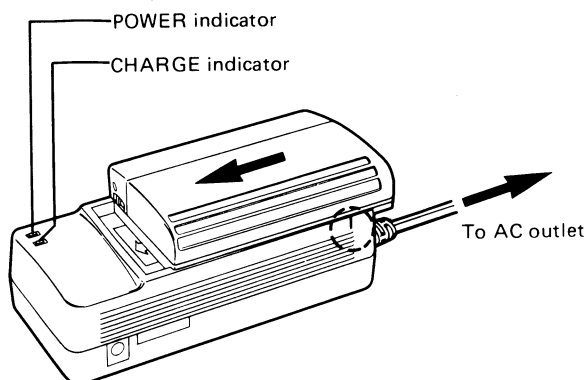
3 Unplug the AC power cord after finishing operation.

Note:

If the provided DC cord is connected to the AC POWER ADAPTER, the battery pack will not be charged and CHARGE indicator goes off.

3

CHARGING THE BATTERY PACK



- 1 Connect the AC power cord to a wall outlet.
(The POWER indicator will light.)
Note:
Be sure to unplug the DC plug before charging the battery pack.

- 2 Align the marks on the battery pack and adapter.
Slide the battery pack in the direction of the arrow until it locks in place.

Charging time		
NB-P5U 60 min	NB-P8U 120 min	BN-V7GU 80 min
NB-P6U 60 min	BN-V5GU 50 min	BN-V66RU 70 min
NB-P7U 70 min	BN-V6GU 70 min	BN-V77RU 80 min

When charging is completed, the CHARGE indicator that is red turns to green.

- 3 Unplug the AC power cord.

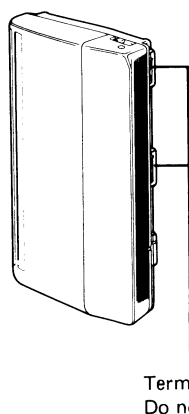
CAUTION

- If the battery is loaded after a long discharge period, a few minutes may pass before the CHARGE INDICATOR lights.

4

A WORD ON THE EXCLUSIVE BATTERY PACKS

The battery packs are nickel-cadmium batteries. Give attention to the following to make the most of their characteristics.



Temperature ranges:
The recharging time is based on room temperature of 20°C.
The lower the temperature, the longer the recharging time.

For charging:
10°C to 35°C
For operating:
0°C to 40°C
For storing:
-10°C to 30°C

THE BATTERY IS KEPT UNCHARGED FOR SHIPMENT. CHARGE IT BEFORE USE.

- To avoid a hazard:
 1. Do not burn the battery.
 2. Do not short-circuit the terminals.
 3. Do not modify or disassemble the battery.
 4. Use only specified chargers.
- To prevent damage and prolong service life:
 1. Avoid dropping and unnecessary shocks.
 2. Avoid repeated charging without first discharging.
- This unit has a limited service life:
Near the end of its service life, when it begins to deliver less recording time per charge, purchase a replacement.
- It is normal for the battery to be warm after charging or use.
- This is a chemical reaction type battery; its properties are best maintained under the following conditions:
 1. Optimum charging takes place at temperatures between 10°C and 35°C. Cooler temperatures impede chemical reaction. Warmer temperatures can prevent complete charging.
 2. Store in a cool dry place. Extended exposure to high temperatures will increase natural discharge and shorten service life.
 3. Total natural discharge may occur during long storage periods (uncharged storage is preferable; recharge one day before use.)
 4. Remove from charger or powered unit when not in use; some units draw current even when switched off.

5

PRECAUTIONS

- As an AC power adapter, the AA-V6EG is used exclusively with the JVC VideoMovie.
- If used near a radio, this unit may interfere with reception.
- Prevent inflammables, water and metallic objects from entering the unit.
- Do not disassemble or modify the unit.
- Do not apply shocks to the unit.
- Do not subject the unit to direct sunlight.
- Avoid using the unit in extremely hot or humid places.
- Avoid using the unit in places subject to vibrations.
- When the AC power cord is connected to a household AC outlet, "Power" indicator or "stand-by" indicator will light.

6

SECTION 1 DISASSEMBLY

1. Take out 2 screws ①

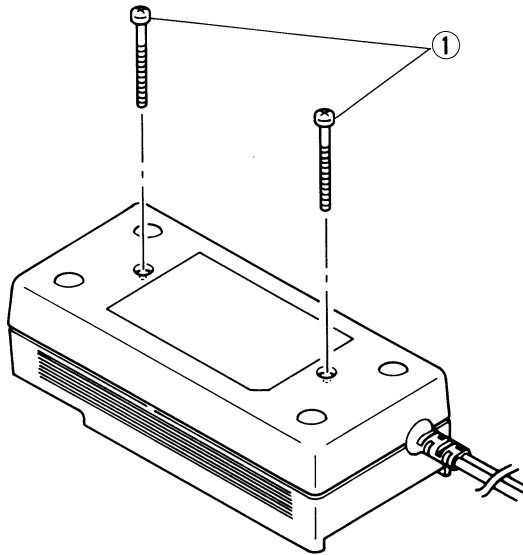


Fig. 1-1 Lower Case removal 1

2. Press at point ① and raise the lower case in the direction indicated by arrow ②. The upper and lower cases can then be separated.

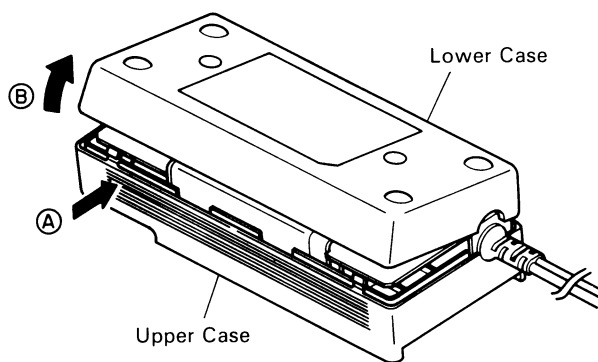


Fig. 1-2 Lower Case removal 2

3. Raise the circuit board assembly (main and sub boards) as indicated by arrow ③ and remove the assembly from the upper case.

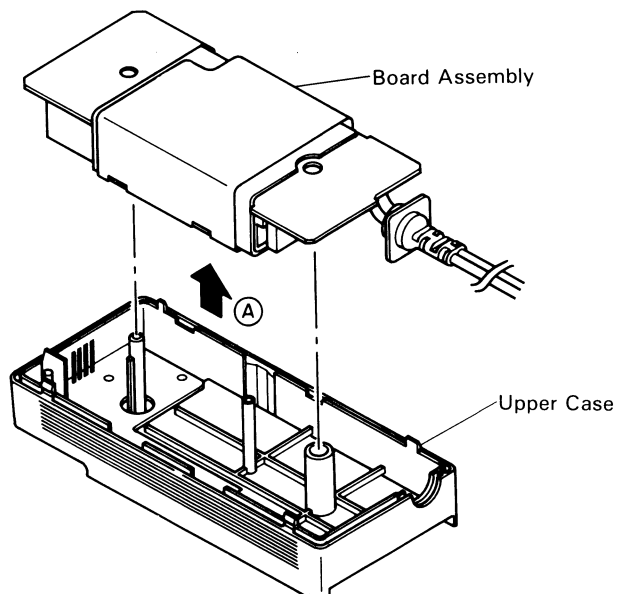


Fig. 1-3 Board Assembly removal

SECTION 2 ELECTRICAL ADJUSTMENT

2.1 ELECTRICAL ADJUSTMENT

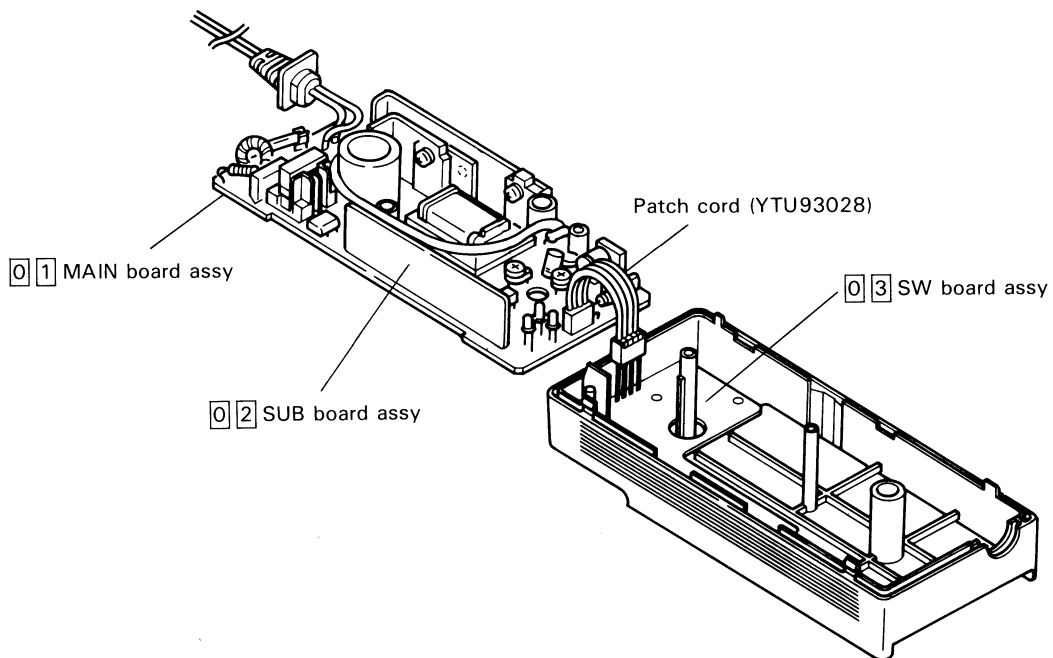


Fig. 2-1 Set up for adjustment

2.2 MAIN CIRCUIT (01 MAIN board)

No.	Item	Mode & Signal	Test Point	Adjustment Parts	Procedure
			Waveform & Adjustment		
1.	OUTPUT Voltage	—	• OUTPUT Terminal	• VR21 (OUTPUT VOLTAGE) 01 MAIN	1) Connect the DC power cord to the DC jack. 2) Connect the other end of the DC power cord to a voltmeter. 3) Adjust VR21 for 10.7 V output voltage.
2.	Charging current	—	• BATTERY Terminal	• VR22 (CHARGING CURRENT) 01 MAIN	1) Depress SW1 of the switch board assembly. (Confirm LED 23 of the main board assembly lights.) 2) Connect an ammeter to the battery terminals. 3) Adjust VR22 for 50 mA.

SECTION 3

SCHEMATIC DIAGRAM AND CIRCUIT BOARDS

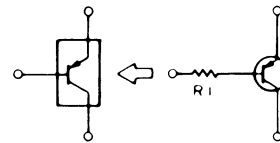
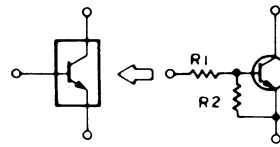
3. GENERAL INFORMATIONS

3.1 SCHEMATIC DIAGRAM VALUES

Unless otherwise specified.

1. All resistance values are in ohms, 1/6 W, 1/8 W, (refer to parts list).
2. All capacitance values are in μF , (P; PF).
3. The voltage of each section has been measured without load by a digital voltmeter. The ground contact on the primary side uses the (–) side of D1.
4. Shaded (▨) parts are critical for safety. Replace only with specified parts numbers.

3.2 DIGITAL TRANSISTOR



DTA114T
T mark only

Note:

The digital transistor includes built in resistors. It features small size and high reliability. Both PNP and NPN types are available.

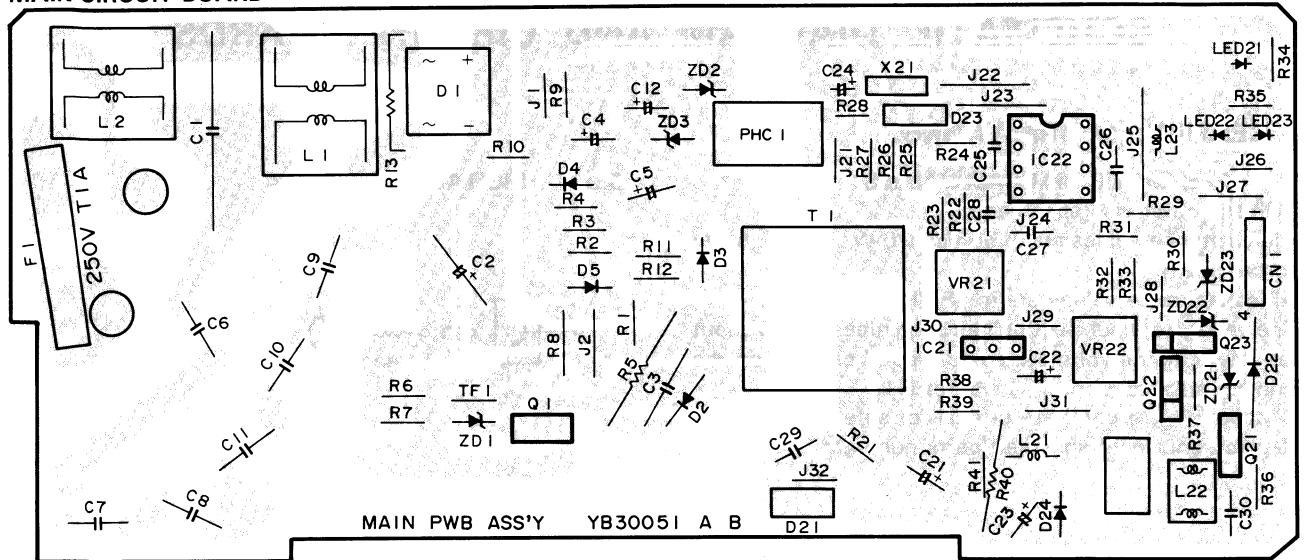
Uses:

Inverter, Interface, driver circuits.

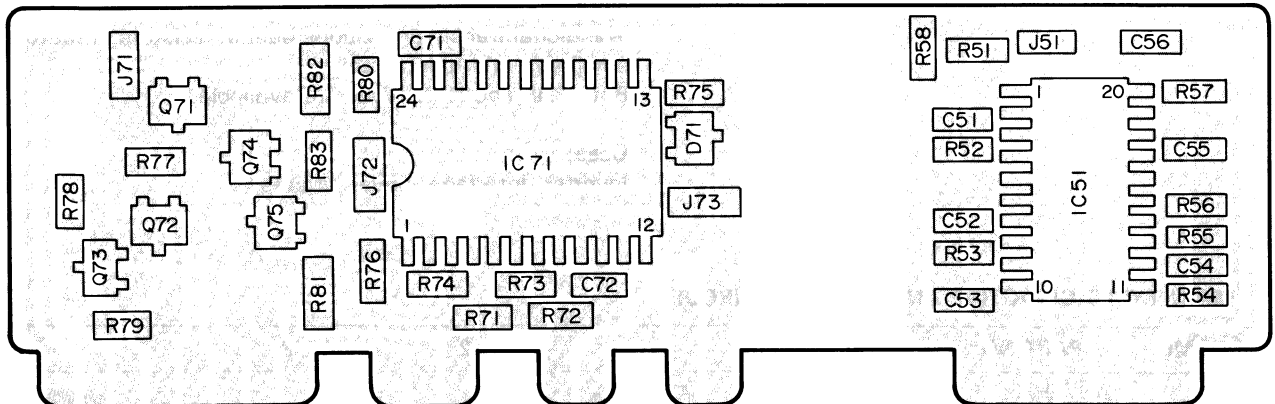
3.3 MAIN TYPES OF ACTIVE AND PACKAGE CIRCUITS

PART NAME	PART NO.	CHART	1	2	3	4
[IC]	AN78L05	1A	A			
	AN6562	1C				
	BA10358	1A				
	NJM2904D	1C				
	HA012611S1	1B				
[Transistor]	M51977FP	1B				
	UN2113	2A	B			
	UN2213	2A				
	2SB952	2B				
	2SD639	2C				
	UN411F	1D				
[Diodo]	DTA143	1D				
	ERA15-01	3A	C			
	ERA22-08	3A				
	ERA22-06	3A				
	ERB81-004	3A				
	MA151WK	3B				
	MA175WK	3C	D			
	MA4039(M)	4A				
	MA4047(M)	4A				
	MA4200(M)	4A				
	MA4300(M)	4A				
	MA649	4B				
	S1WB(A)60	4C				

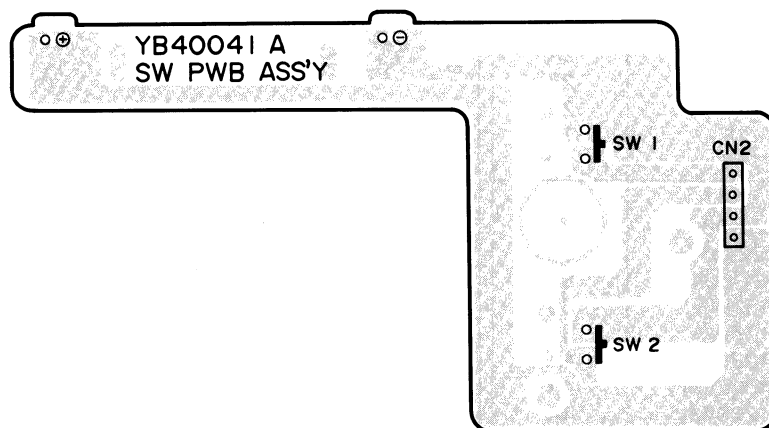
—MAIN CIRCUIT BOARD—



—SUB CIRCUIT BOARDS—

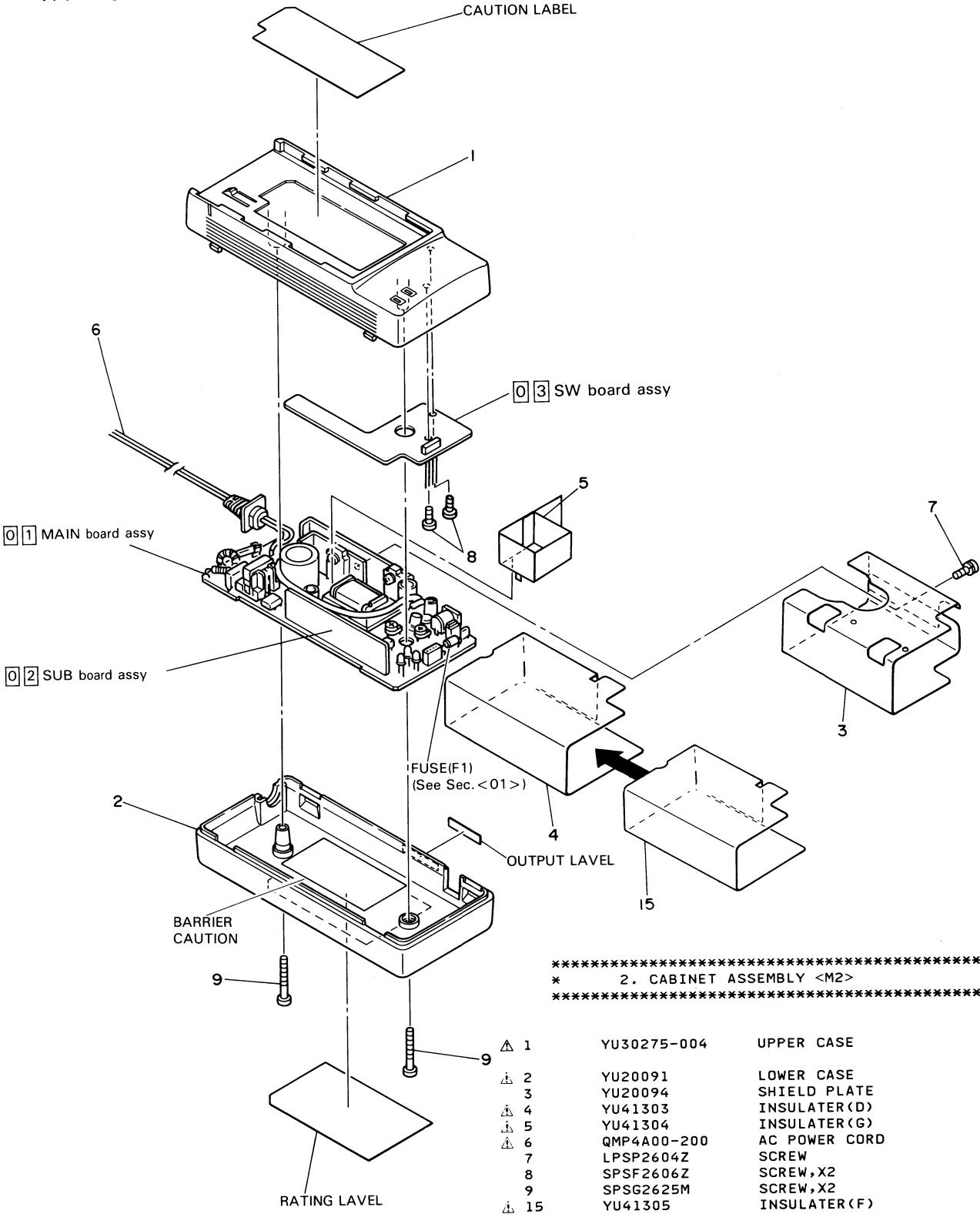


—SW CIRCUIT BOARD—



SECTION 4
EXPLODED VIEWS AND PARTS LIST

4.1 CABINET ASSEMBLY <M2>



SECTION 5
ELECTRICAL PARTS LIST

REF NO. PART NO. PART NAME, DESCRIPTION

* 3. MAIN BOARD ASSEMBLY <01>

△ PWBA	YB30051A	MAIN BOARD ASSY
IC21	AN78L05	IC
IC22	AN6562	IC
OR	BA10358	IC
OR	NJM2904D	IC
△ Q1	2SK903	FE TRANSISTOR
Q21	2SB952(RQP)	TRANSISTOR
△ Q22	2SD639R,S	TRANSISTOR
Q23	UN411F	DIGI TR
OR	DTA143XS	DIGI TR
D1	S1WB(A)60	BRIDGE DIODE
△ D2	ERA22-08	DIODE
D3	ERA22-06	DIODE
D4	ERA15-01	DIODE
D5	MA165	DIODE
LED21	SLR-34VR5F	LED
LED22	SLR-34MC5F	LED
LED23	SLR-34VR5F	LED
△ ZD1	MA4200(M)	ZENER DIODE
OR	MTZ20(CD)	ZENER DIODE
△ ZD2	MA4300(M)	ZENER DIODE
OR	MTZJ30(CD)	ZENER DIODE
△ ZD3	MA4047(M)	ZENER DIODE
OR	MTZ4.7(B)	ZENER DIODE
△ D21	MA649	DIODE
OR	ESAB92M-02	DIODE
△ D22	ERB81-004	DIODE
△ D23	MA175WK	DIODE
OR	DAN209S	DIODE
D24	ERA15-01	DIODE
ZD21	MA4039(M)	ZENER DIODE
ZD22	MA4047N(M)	ZENER DIODE
ZD23	MA4047N(M)	ZENER DIODE
R1	QRD14AJ-683Y	RESISTOR
R2	QRD14AJ-683Y	RESISTOR
R3	QRD14AJ-683Y	RESISTOR
R4	QRD14AJ-683Y	RESISTOR
R5	QRG029J-683A	OMF RESISTOR
R6	QRX124J-R36X	MF RESISTOR
R7	QRX124J-R36X	MF RESISTOR
R8	QRD14AJ-100Y	RESISTOR
R9	QRD146J-100S	RESISTOR
R10	QRD146J-820S	RESISTOR
R11	QRD14AJ-753Y	RESISTOR
R12	QRD14AJ-104Y	RESISTOR
△ R13	QRD122J-105	RESISTOR
R21	QRD123J-220S	RESISTOR
R22	QRD14AJ-153Y	RESISTOR
R23	QRD14AJ-512Y	RESISTOR
R24	QRD14AJ-162Y	RESISTOR
R25	QRD14AJ-102Y	RESISTOR
R26	QRD14AJ-302Y	RESISTOR
R27	QRD14AJ-514Y	RESISTOR
R28	QRD14EJ-751	RESISTOR
R29	QRD14AJ-241Y	RESISTOR
R30	QRD14AJ-103Y	RESISTOR
R31	QRD14AJ-161Y	RESISTOR
R32	QRD14AJ-113Y	RESISTOR

REF NO. PART NO. PART NAME, DESCRIPTION

R33	QRD14AJ-221Y	RESISTOR
R34	QRD14AJ-471Y	RESISTOR
R35	QRD14AJ-271Y	RESISTOR
R36	QRD14AJ-471Y	RESISTOR
R37	QRD14AJ-472Y	RESISTOR
R38	QRD14AJ-331Y	RESISTOR
R39	QRD14AJ-331Y	RESISTOR
R40	QRX016G-R10A	MF RESISTOR
R41	QRD123J-152SX	RESISTOR
VR21	QVZ3518-103	V RESISTOR, OUTPUT VOLTAGE
OR	QVZ3523-103	V RESISTOR
VR22	QVZ3518-103	V RESISTOR, CHARGING CURRENT
OR	QVZ3523-103	V RESISTOR
△ C1	YU40302	MM CAPACITOR
OR	QFZ9031-104	MM.CAP
△ C2	YU41193	E CAPACITOR
△ C3	QFD52GK-473	M CAPACITOR
C4	QETC1VM-336	E CAPACITOR
C5	QETC1VM-337	E CAPACITOR
△ C6	QCZ9045-222	CAPACITOR
△ C7	QCZ9045-222	CAPACITOR
△ C8	QCZ9045-222	CAPACITOR
△ C9	QCZ9045-222	CAPACITOR
△ C10	QCZ9045-222	CAPACITOR
△ C11	QCZ9045-222	CAPACITOR
C12	QETC1HM-105	E CAPACITOR
C21	QEZO154-687	E CAPACITOR
C22	QETC1CM-106	E CAPACITOR
C23	QEZO105-826	E CAPACITOR
C24	QER41HM-105A	E CAPACITOR
C25	QFLA1HK-472Z	M CAPACITOR
C26	QFV41HJ-683	M CAPACITOR
C27	QFV41HJ-104	M CAPACITOR
C28	QFLA1HK-332Z	M CAPACITOR
C29	YU40304	CAPACITOR
C30	QFL41HJ-103	MY CAP
△ PHC1	PC111S	PHOTO COUPLER
△ L1	YU41130	COIL
△ L2	YU41206	COIL
L21	YU41200	N CHOKE COIL
L22	YU40754	TROIDAL COIL
L23	PU54223-101K	COIL
△ X21	YU41137	C.RESONATOR
△ T1	YU41207	SW TRANS
CN1	YU41166-4	HOUSING
△ TF1	YU41334	THERMAL FUSE
J1	YU41196	DC JACK
△ HS1	YU41333A	HEAT SINK ASSY
△ HS2	YU41140	HEAT SINK (B)
△ F1	QMF51E2-1R0	FUSE, NOT INCL MAIN BOARD ASSY

* 4. SUB BOARD ASSEMBLY <02>

△ PWBA	YB30052A	SUB BOARD ASSY
△ IC51	M51977FP	IC
△ IC71	HA012611S1	IC
Q71	UN2113	TRANSISTOR
Q72	UN2113	TRANSISTOR
Q73	UN2113	TRANSISTOR

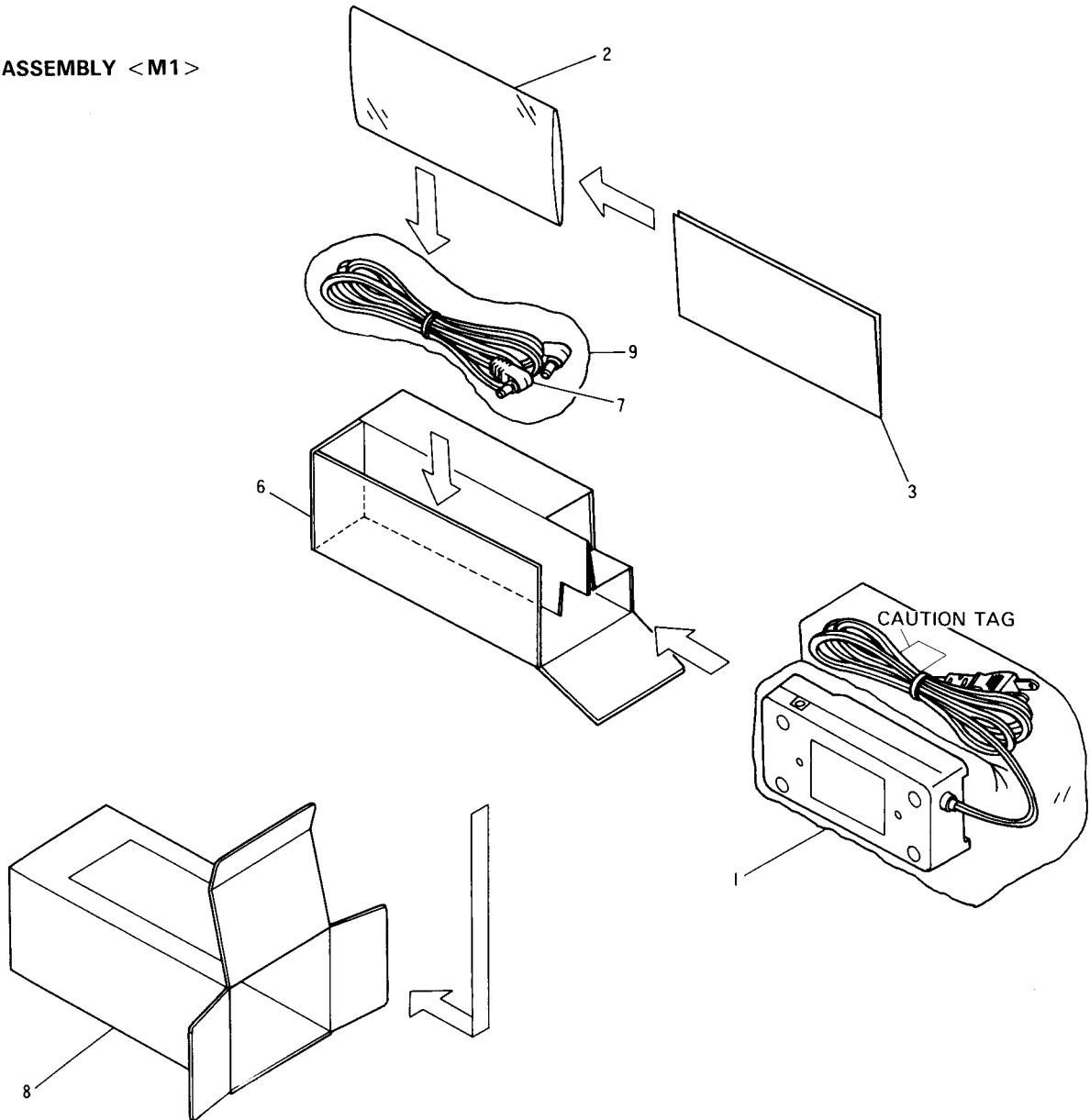
#	REF NO.	PART NO.	PART NAME, DESCRIPTION
	Q74	UN2213	TRANSISTOR
	Q75	UN2213	TRANSISTOR
	D71	MA151WK	DIODE
	R51	QRSA08J-182YN	RESISTOR
	R52	QRSA08J-473YN	RESISTOR
	R53	QRSA08J-223YN	RESISTOR
	R54	QRSA08J-183YN	RESISTOR
	R55	QRSA08J-163YN	RESISTOR
	R56	QRSA08J-474YN	RESISTOR
	R57	QRSA08J-470YN	RESISTOR
	R58	QRSA08J-154YN	RESISTOR
	R71	QRSA08J-431YN	RESISTOR
	R72	QRSA08J-751YN	RESISTOR
	R73	QRSA08J-103YN	RESISTOR
	R74	QRSA08J-472YN	RESISTOR
	R75	QRSA08J-104YN	RESISTOR
	R76	QRSA08J-472YN	RESISTOR
	R77	QRSA08J-332YN	RESISTOR
	R78	QRSA08J-622YN	RESISTOR
	R79	QRSA08J-752YN	RESISTOR
	R80	QRSA08J-271YN	RESISTOR
	R81	QRS188J-242YN	RESISTOR
	R82	QRS188J-133YN	RESISTOR
	R83	QRSA08J-622YN	RESISTOR
	C51	QCFA1HZ-104	CAPACITOR
	C52	QCFA1EZ-104	CAPACITOR
	C53	QCYA1HK-222	CAPACITOR
	C54	QCTA1CH-391	CAPACITOR
	C55	QCTA1CH-471	CAPACITOR
	C56	QCFA1HZ-104	CAPACITOR
	C71	QCFA1EZ-104	CAPACITOR
	C72	QCYA1HK-103	CAPACITOR
	J51	QRSA08J-0R0Y	RESISTOR
	J71	QRS188J-0R0Y	RESISTOR
	J72	QRS188J-0R0Y	RESISTOR
	J73	QRS188J-0R0Y	RESISTOR

 * 5. SWITCH BOARD ASSEMBLY <03> *

PWBA	YB40041A	SUB BOARD ASSY
SW1	YU41138	SWITCH
SW2	YU41138	SWITCH
CN2	YU41197-4	CONNECTOR

SECTION 6 PACKING ASSEMBLY AND PARTS LIST

6.1 PACKING ASSEMBLY <M1>



#	REF NO.	PART NO.	PART NAME, DESCRIPTION

* 1. PACKING ASSEMBLY <M1> *			

1	QPGA013-06205		POLY BAG
2	QPGA010-02003		POLY BAG
3	YU30052-100		INSTRUCTIONS
6	YQ10131-001		CUSHION
7	YU40412		DC PLUG CORD
8	YU20087-6		PACKING CASE
9	QPGA024-00703		POLY BAG

SECTION 7

TECHNICAL INFORMATION

7.1 POWER ADAPTER PIN FUNCTION (IC71)

Pin No.	REF	IN/OUT	Note
1	R7	Input	L with battery inserted and SW1 ON.
2	R8	"	H when DC Jack Connected
3	R9	Output	L at fast charge, LED 23 (red) lights. H at trickle charge, LED 23 (red) extinguished.
4	NC	—	
5	AV +	Input	5 V
6	AV —	"	GND
7	AN	"	Battery Voltage detector analog in put.
8	NC	—	
9	NC	—	
10	R6	—	Not used. Connected to ground.
11	X	Output	4 MHz
12	EX	Input	X'TAL OSC
13	VSS	Input	GND
14	R0	Output	L during charge Q23 ON. H at 24 hour limit, end trickle charge.
15	R1	"	L at adapter mode.
16	NC	—	
17	R2	Input	Signal input for switching to fast charge. Shift to fast charge at H.
18	R3	Output	L out put at fast charge Q72 ON. H at fast charge completion.
19	R4	"	L output at trickle charge, LED 22 (green) lights. L maintained also after 24 hour limit.
20	R5	"	L output at adapter mode, Q71 ON.
21	VSS	Input	GND
22	TEST	"	GND
23	RESET	"	Initialize at L level.
24	VCC	"	5 V

Table 7.1 Pin functions